

# Flour Milling Products: 2002

Issued July 2003

## Summary

MQ311A(02)-5

Current  
Industrial  
Reports

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/mcd/>.

Individual reports can be accessed by choosing "Current Industrial Reports (CIR)," clicking on "CIRs by Subsector;" then choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: [www.stat-usa.gov/](http://www.stat-usa.gov/). Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Consumer Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call William J. Baldwin, 301-763-7693.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

# U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



**Table 1. Summary of Commercial Wheat Milling Production: 1997 to 2002**

Year	Wheat flour production (1,000 cwt sacks)	Wheat ground for flour (1,000 bushels)	Millfeed production (1,000 tons)	Average pounds per cwt sack of flour	
				Wheat	Millfeed
2002.....	394,700	893,107	6,908	135.8	35.0
2001.....	404,521	914,036	7,275	135.6	36.0
2000.....	421,270	944,868	7,374	134.6	35.0
1999.....	411,968	917,797	7,040	133.7	34.2
1998.....	398,914	895,369	6,955	134.7	34.9
1997.....	404,143	885,843	6,886	131.5	34.1

Table 2. Commercial Wheat Milling Production by Quarter: 2002 and 2001

Quarter and year	Wheat flour production (1,000 cwt sacks)	Wheat ground for flour (1,000 bushels)	Millfeed production (tons)	Daily (24-hour) capacity in wheat flour (1,000 cwt sacks)	Wheat flour mill stocks (1,000 cwt sacks)	Average pounds per cwt sack of flour	
						Wheat	Millfeed
2002							
Total.....	394,700	893,107	6,908,114	(X)	(X)	135.8	35.0
Fourth quarter.....	100,275	228,134	1,810,188	1,491	4,265	136.5	36.1
Third quarter.....	102,132	230,327	1,810,406	1,489	4,184	135.3	35.5
Second quarter.....	96,276	217,626	1,657,536	1,473	4,632	135.6	34.4
First quarter.....	96,017	217,020	1,629,984	1,493	5,164	135.6	34.0
2001							
Total.....	404,521	914,036	7,274,979	(X)	(X)	135.6	36.0
Fourth quarter.....	105,806	238,693	1,891,525	1,531	5,377	135.4	35.8
Third quarter.....	102,077	230,240	1,818,325	1,543	5,393	135.3	35.6
Second quarter.....	97,189	221,316	1,758,977	1,604	5,178	136.6	36.2
First quarter.....	99,449	223,787	1,806,152	1,588	5,506	135.0	36.3

X Not applicable.

Table 3. Commercial Rye Milling Production by Quarter: 2002 and 2001

Quarter and year	Rye flour production (1,000 cwt sacks)	Rye ground for flour (1,000 bushels)	Millfeed production (tons)	Daily (24-hour) capacity (1,000 cwt sacks)	Stocks of rye flour (1,000 cwt sacks)	Average pounds ground per cwt sack of flour	
						Rye	Millfeed
2002							
Total.....	(D)	(D)	(D)	(X)	(X)	136.8	18.0
Fourth quarter.....	(D)	(D)	(D)	11	11	132.1	16.8
Third quarter.....	(D)	(D)	(D)	11	12	143.2	20.5
Second quarter.....	(D)	(D)	(D)	11	11	137.9	18.3
First quarter.....	(D)	(D)	(D)	11	18	134.1	16.4
2001							
Total.....	1,295	(D)	(D)	(X)	(X)	120.5	17.7
Fourth quarter.....	333	(D)	(D)	10	24	111.0	19.2
Third quarter.....	311	(D)	(D)	10	22	128.0	14.4
Second quarter.....	293	(D)	(D)	10	20	120.0	17.5
First quarter.....	358	(D)	(D)	10	27	122.8	19.6

D Withheld to avoid disclosing data for individual companies.    X Not applicable.

Table 4a. Summary of Commercial Wheat Milling Production by Geographic Areas: 2002 and 2001

Geographic area	2002			2001		
	Wheat flour production			Wheat flour production		
	Total (1,000 cwt sacks)	Wheat ground for flour (1,000 bushels)	Daily (24-hour) capacity (cwt sacks)	Total (1,000 cwt sacks)	Wheat ground for flour (1,000 bushels)	Daily (24-hour) capacity (cwt sacks)
United States.....	394,700	893,107	1,490,953	404,521	914,036	1,531,035
California and Hawaii.....	31,520	71,129	125,700	31,625	72,304	116,000
Iowa.....	7,237	14,526	26,318	8,143	18,394	38,198
Illinois.....	14,637	34,180	53,800	14,013	31,945	54,300
Kansas.....	34,691	77,908	135,504	38,600	88,454	156,204
Michigan.....	7,946	18,085	32,700	6,214	14,283	32,700
Minnesota.....	27,758	60,254	124,000	29,578	65,365	119,900
Missouri.....	26,513	59,982	99,700	25,674	55,776	94,500
New York.....	20,824	46,898	86,220	21,413	48,488	81,977
North Carolina.....	11,900	25,382	55,165	11,480	25,984	53,665
Ohio.....	21,834	49,115	76,300	23,621	53,760	76,400
Oklahoma.....	8,309	19,926	30,500	8,451	19,781	30,500
Oregon and Washington.....	8,034	18,572	29,300	11,849	26,592	46,800
Pennsylvania.....	24,843	55,608	84,142	28,846	62,311	100,042
Tennessee.....	11,391	28,072	49,059	11,914	28,998	49,498
Texas.....	17,084	41,009	64,300	17,092	39,889	62,600
Nebraska.....	9,060	20,123	32,720	8,599	19,449	31,720
Utah.....	10,108	23,004	39,820	10,268	23,823	39,140
All other states.....	101,011	229,334	345,705	97,141	218,440	346,891

Table 4b. Quantity of Wheat Flour Produced by Geographic Area: 2002 and 2001  
[1,000 cwt sacks]

Geographic area	Total	First quarter	Second quarter	Third quarter	Fourth quarter
2002					
United States.....	394,700	96,017	96,276	102,132	100,275
California and Hawaii.....	31,520	7,502	7,679	8,026	8,313
Iowa.....	7,237	2,181	1,716 r/	1,661 r/	1,679
Illinois.....	14,637 r/	3,023	3,822	3,860	3,932
Kansas.....	34,691	8,338	8,462	9,389	8,502
Michigan.....	7,946	1,791	1,865	2,166	2,124
Minnesota.....	27,758	6,903 r/	6,759	7,152 r/	6,944
Missouri.....	26,513	6,067	6,369	6,914	7,163
New York.....	20,824 r/	4,793 r/	5,042	5,564	5,425
North Carolina.....	11,900	2,852	2,951	3,145	2,952
Ohio.....	21,834	5,236	5,612	5,658	5,328
Oklahoma.....	8,309 r/	2,165 r/	2,148	2,020	1,976
Oregon and Washington.....	8,034 r/	2,221	2,000	2,052	1,761
Pennsylvania.....	24,843	7,097	5,702	5,979	6,065
Tennessee.....	11,391	2,931	2,938	2,715	2,807
Texas.....	17,084	4,320	4,181	4,334	4,249
Nebraska.....	9,060	2,067	2,172	2,418	2,403
Utah.....	10,108	2,234 r/	2,384	3,074 r/	2,416
All other states.....	101,011	24,296	24,474	26,005	26,236
2001					
United States.....	404,521	99,449	97,189	102,077	105,806
California and Hawaii.....	31,625	7,515	7,524	8,256	8,330
Iowa.....	8,143	2,053	1,859	2,008	2,223
Illinois.....	14,013	3,975	3,579	3,186	3,273
Kansas.....	38,600	9,354	8,800	9,571	10,875
Michigan.....	6,214	1,337	1,502	1,628	1,747
Minnesota.....	29,578	7,686	7,059	7,595	7,238
Missouri.....	25,674	6,377	6,340	6,269	6,688
New York.....	21,413	5,540	5,567	5,157	5,149
North Carolina.....	11,480	2,789	2,671	3,035	2,985
Ohio.....	23,621	5,969	6,350	5,615	5,687
Oklahoma.....	8,451	2,067	2,030	2,134	2,220
Oregon and Washington.....	11,849	2,806	2,816	2,986	3,241
Pennsylvania.....	28,846	6,976	6,949	7,491	7,430
Tennessee.....	11,914	2,816	2,789	3,194	3,115
Texas.....	17,092	4,101	4,007	4,517	4,467
Nebraska.....	8,599	2,022	2,043	2,170	2,364
Utah.....	10,268	2,515	2,378	2,492	2,883
All other states.....	97,141	23,551	22,926	24,773	25,891

r/Revised by 5 percent or more from previously published data.

Table 4c. Quantity of Wheat Ground for Flour by Geographic Area: 2002 and 2001  
[1000 bushels]

Geographic area	Total	First quarter	Second quarter	Third quarter	Fourth quarter
2002					
United States.....	893,107	217,020	217,626	230,327	228,134
California and Hawaii.....	71,129	16,947	16,988	18,162	19,032
Iowa.....	14,526 r/	3,506 r/	3,739 r/	3,582 r/	3,699
Illinois.....	34,180	8,511	8,619	8,197	8,853
Kansas.....	77,908	19,105	19,058	20,779	18,966
Michigan.....	18,085	3,963	4,272	4,981	4,869
Minnesota.....	60,254 r/	14,367 r/	15,423 r/	15,343 r/	15,121
Missouri.....	59,982 r/	13,854 r/	14,334 r/	15,618 r/	16,176
New York.....	46,898 r/	11,181	11,814 r/	12,180 r/	11,723
North Carolina.....	25,382	5,961	6,124 r/	6,676 r/	6,621
Ohio.....	49,115	11,723	12,514	12,786	12,092
Oklahoma.....	19,926 r/	4,969 r/	4,877 r/	5,060 r/	5,020
Oregon and Washington.....	18,572 r/	5,155 r/	4,575	4,728 r/	4,114
Pennsylvania.....	55,608	15,532	12,588	13,663	13,825
Tennessee.....	28,072	6,954	7,101	6,759	7,258
Texas.....	41,009	10,226	9,804	10,624	10,355
Nebraska.....	20,123	4,592	4,806	5,406	5,319
Utah.....	23,004	5,089	5,410	7,103	5,402
All other states.....	229,334	55,385	55,580	58,680	59,689
2001					
United States.....	914,036	223,787	221,316	230,240	238,693
California and Hawaii.....	72,304	17,223	17,450	18,570	19,061
Iowa.....	18,394	4,525	4,524	4,462	4,883
Illinois.....	31,945	8,796	8,404	7,408	7,337
Kansas.....	88,454	21,701	20,415	21,750	24,588
Michigan.....	14,283	3,122	3,435	3,742	3,984
Minnesota.....	65,365	16,685	15,726	16,841	16,113
Missouri.....	55,776	13,927	13,833	13,569	14,447
New York.....	48,488	11,910	13,042	11,689	11,847
North Carolina.....	25,984	6,132	6,131	6,927	6,794
Ohio.....	53,760	13,661	14,432	12,828	12,839
Oklahoma.....	19,781	4,844	4,768	4,982	5,187
Oregon and Washington.....	26,592	6,321	6,344	6,669	7,258
Pennsylvania.....	62,311	14,870	14,963	16,209	16,269
Tennessee.....	28,998	6,919	6,817	7,750	7,512
Texas.....	39,889	9,768	9,395	10,122	10,604
Nebraska.....	19,449	4,635	4,602	4,923	5,289
Utah.....	23,823	5,702	5,397	6,102	6,622
All other states.....	261,712	63,383	61,637	66,722	69,970

r/Revised by 5 percent or more from previously published data.

**Table 5. Durum Wheat Products by Quarter: 2002 and 2001**

	Unit of measure	Total	First quarter	Second quarter	Third quarter	Fourth quarter
2002						
Durum wheat ground.....	1,000 bushels.....	71,622	18,063	16,901	17,994	18,664
Straight semolina.....	1,000 cwt .....	32,411	8,527	7,387	8,013	8,484
Blended semolina.....	1,000 cwt .....	(D)	(D)	(D)	(D)	(D)
2001						
Durum wheat ground.....	1,000 bushels.....	73,435	19,416	16,953	18,199	18,867
Straight semolina.....	1,000 cwt .....	32,930	8,680	7,620	8,127	8,503
Blended semolina.....	1,000 cwt .....	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.



# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

---

### GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

### NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

---

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

## RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

## DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

## DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

## EXPLANATION OF GENERAL TERMS

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

**Gross shipments.** The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

**Machinery in place.** The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

---

**Quantity and value of new orders.** The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

**Quantity and value of shipments.** The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

#### **HISTORICAL NOTE**

Flouring milling products data have been collected by the Census Bureau since 1923, with annual summaries including wheat ground and wheat milling products. Data, by states, were published monthly from 1927 to 1997. Beginning in 1931 and ending with the June 1947 report, monthly wheat flour production by capacity groups was published. The annual summary report during the years 1931 to 1964 also contained a table showing production by capacity groups. Beginning in 1998, data have been collected quarterly. Historical data may be obtained from the Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.